Common Sense Initiative, Automobile Manufacturing Sector

U.S. Automobile Assembly Plants and Their Communities: Environmental Economic, and Demographic Profile

Part III: Automobile/Light Duty Truck Assembly Plant-Community Profiles

35. Ford Motor Co.
Claycomo, MO

December 1997

Contents and Guidelines for Use

Users of this profile should carefully review the description of methods, data limitations, and guidelines for use and interpretation of the data presented in Part I of the report.

Contents:

General Guidelines for Use

Efforts have been made to ensure that the data presented here are accurate. The Project Team could not independently verify data accuracy in all cases, however, and some errors may remain. The following is a partial list of factors that should be considered in using these profiles:

1. Current releases presented in this report represent only some of the contamination sources in a given area. Data on historical releases (prior to 1991) were not included, and releases from non-assembly plant emission sources were identified only through the Toxics Release Inventory (TRI). TRI data do not cover all sources of releases. Considering only TRI data for a given community may mis-state the relative contribution of plants and their neighboring TRI facilities to an area's total releases.
2. Care must be taken to distinguish true changes over time in environmental releases from apparent changes, due, for example, to changes in the scope of reporting requirements.
3. TRI data are often based on engineering estimates and are reported on an annual basis. Data on releases over shorter time frames are not available.
4. TRI, the Biennial Report and other databases do not include all substances and environmental releases of concern.

Notes on Comparisons Across Facilities

1. The following factors can affect an assembly plant's environmental profile, among other things: the number of vehicles produced, plant age, process equipment age, and vehicle size and configuration.
2. Some plants are highly-integrated, performing some parts and all assembly steps in-house. Others obtain parts from other manufacturing facilities, or share assembly operations with another plant.
3. States differ in how they define hazardous waste and how they treat recycled wastes and small quantity generators. Therefore, data on quantities of BRS wastes generated may not be comparable for plants located in different states.
4. Area-wide averages for economic and demographic characteristics may be better or worse measures of the plant’s immediate community, depending on the specific location of a plant within the reporting area.

Plant-Community Profile:
Ford Motor Co.
Claycomo MO

LOCATION

Address: Hwy 69, Claycomo MO 64119
Lat/Long: latitude (degrees N) 39 12' 7"
longitude (degrees W) 94 28' 45"
County: Clay MSA: Kansas City KS-MO
Other counties within 3 miles of plant: Jackson

DESCRIPTION

Plant opened in 1951; produced Ford Tempo, Ford Contour, Mercury Mystique and Topaz in 1994.

ID NUMBERS

RCRA ID MOD007118078
AIRS ID AFS2904700019
NPDES ID MO00004936
TRI 64119FRDMTHWY69

OPERATIONS

	Production	Employment
Calendar Year: 1991	293,435	
1992	405,910	
1993	421,529	
1994	413,564	4,642

PLANT ENVIRONMENTAL PROFILE

RCRA BIENNIAL REPORT

Waste Code(s)	*Wastewater?*	*Physical Form*	*Source*	*Mgd. On/Off-Site*	*Management Method*	*Quantity Generated (tons)*	*Quantity Shipped (tons)*	*Quantity Mgd. On-Site (tons)*
1991								
D001, F005, D006	N	B211 org. liquids	A21 painting	Off	M021 solvents recov.	965.8	965.8	0.0
D001, F005, D006	N	B211 org. liquids	A21 painting	Off	M029 solvents recov.	7.7	7.7	0.0
D001, F005, D006	N	B211 org. liquids	A21 painting	Off	M051 energy recov.	449.8	449.8	0.0
D008 (lead)	N	B319 inorg. solids	A35 by-product process.	Off	M132 landfill	6.6	6.6	0.0
TOTAL - 1991						***1,430.0***	***1,430.0***	***0.0***
1993								
D001 (ignitable)	N	B319 inorg. solids	A58 1x/intermittent	Off	M061 fuel blending	18.6	18.6	0.0
D001, D006, F005	N	B211org. liquid	A21 painting	Off	M021 solvents recov.	404.5	404.5	0.0
D001, D006, F005	N	B211org. liquid	A21 painting	Off	M022 solvents recov.	1,087.3	1,087.3	0.0
D001, D006, F005	N	B211org. liquid	A21 painting	Off	M029 solvents recov.	0.9	0.9	0.0
D001, D006, F005	N	B211org. liquid	A21 painting	Off	M051 energy recov.	439.1	439.1	0.0
D008 (lead)	N	B319 inorg. solids	A35 by-product proc.	Off	M119 stabilization	19.2	19.2	0.0
F002, D005, D007, D008, D003	N	B604 org. sludges	A01 stripping	Off	M061 fuel blending	26.7	26.7	0.0
TOTAL - 1993						***1,996.4***	***1,996.4***	***0.0***

TOXICS RELEASE INVENTORY

Total lbs of TRI chemicals:	*Air-Fugitive Emissions*	*Air-Stack Emissions*	*Total Releases*	*Discharge to POTW*	*Off-Site Energy Recovery*	*Off-Site Recycling*	*Off-Site Treatment*	*Off-Site Disposal*	*Total Transfers*
1991	76,675	1,649,576	1,726,251	69,363	267,000	1,025,200	0	67,628	1,429,191
1992	176,396	2,386,566	2,562,962	100,944	308,500	2,297,180	0	105,735	2,812,359
1993	218,676	2,471,292	2,689,968	58,272	382,400	2,008,000	0	90,608	2,539,280
1994	186,685	2,150,932	2,337,617	36,488	767,515	2,299,200	0	64,364	3,167,567
Lbs. per vehicle produced:									
1991	0.26	5.62	5.88	0.24	0.91	3.49	0.00	0.23	4.87
1992	0.43	5.88	6.31	0.25	0.76	5.66	0.00	0.26	6.93
1993	0.52	5.86	6.38	0.14	0.91	4.76	0.00	0.21	6.02
1994	0.45	5.20	5.65	0.09	1.86	5.56	0.00	0.16	7.66

Plant-Community Profile:
Ford Motor Co.
Claycomo MO

PLANT ENVIRONMENTAL PROFILE (continued)

1994 TRI Emissions/Releases by Chemical (lbs.)

Chemical Name	*Air-Fugitive Emissions*	*Air-Stack Emissions*	*Total Releases*	*Discharge to POTW*	*Off-Site Energy Recovery*	*Off-Site Recycling*	*Off-Site Treatment*	*Off-Site Disposal*	*Total Transfers*
METHANOL	2,600	65,000	67,600	5	210	0	0	2	217
N-BUTYL ALCOHOL	200	29,000	29,200	5	21,500	72,000	0	2	93,507
BENZENE	520	130	650	0	0	0	0	0	0
DICHLOROMETHANE	890	5,500	6,390	2	19,000	0	0	0	19,002
METHYL ETHYL KETONE	13,000	15,000	28,000	5	9,800	29,200	0	2	39,007
1,2,4-TRIMETHYLBENZENE	10,000	55,000	65,000	1	0	0	0	1	2
ETHYLBENZENE	14,000	280,000	294,000	5	53,000	244,000	0	2,880	299,885
ETHYLENE GLYCOL	0	0	0	7,900	18,000	0	0	0	25,900
METHYL ISOBUTYL KETONE	27,000	250,000	277,000	5	83,000	1,010,000	0	3	1,093,008
TOLUENE	77,000	620,000	697,000	5	15,000	64,000	0	1	79,006
CYCLOHEXANE	19	6	25	0	5	0	0	0	5
PROPYLENE	0	5	5	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	12,000	560,000	572,000	5	510,000	880,000	0	5,910	1,395,915
METHYL TERT-BUTYL ETHER	5,200	1,200	6,400	0	0	0	0	0	0
HYDROCHLORIC ACID	5	0	5	0	0	0	0	0	0
NITRIC ACID	1	0	1	0	0	0	0	0	0
CHROMIUM COMPOUNDS	0	84	84	420	0	0	0	14,100	14,520
GLYCOL ETHERS	24,000	270,000	294,000	26,000	38,000	0	0	0	64,000
LEAD COMPOUNDS	0	0	0	280	0	0	0	2,818	3,098
MANGANESE COMPOUNDS	0	6	6	530	0	0	0	8,730	9,260
NICKEL COMPOUNDS	0	0	0	620	0	0	0	8,700	9,320
ZINC COMPOUNDS	250	1	251	700	0	0	0	21,215	21,915
TOTAL	***186,685***	***2,150,932***	***2,337,617***	***36,488***	***767,515***	***2,299,200***	***0***	***64,364***	***3,167,567***

VOC/NOx Emissions:
(lbs/year)

	VOCs	*NOx*
1990	3,444,000	260,000
1991	NA	NA
1992	4,234,000	252,000
1993	5,154,000	268,000
1994	5,214,000	240,000

Plant-Community Profile:
Ford Motor Co.
Claycomo MO

COMMUNITY ENVIRONMENTAL PROFILE

TRI Chemical Releases & Transfers from Sources Within 3 Miles of Auto/LDT Plant (lbs.)

	Facility (w. map #)	*Air-Fugitive Emissions*	*Air-Stack Emissions*	*Total Releases*	*Discharge to POTW*	*Off-Site Transfers*	*Total Transfers*
2	NEKOOSA PACKAGING KANSAS CITY	0	0	0	0	0	0
	Total	***0***	***0***	***0***	***0***	***0***	***0***

Air Quality Attainment Status (as of 1994)*

ozone - maintenance
carbon monoxide - attainment or unclassifiable
particulates - unclassifiable
lead - unclassifiable
NO2 - cannot be classified or better than national standards
SO2 - attainment

* no changes in designations occurred between 1994 and 1996

Plant-Community Profile:
Ford Motor Co.
Claycomo MO

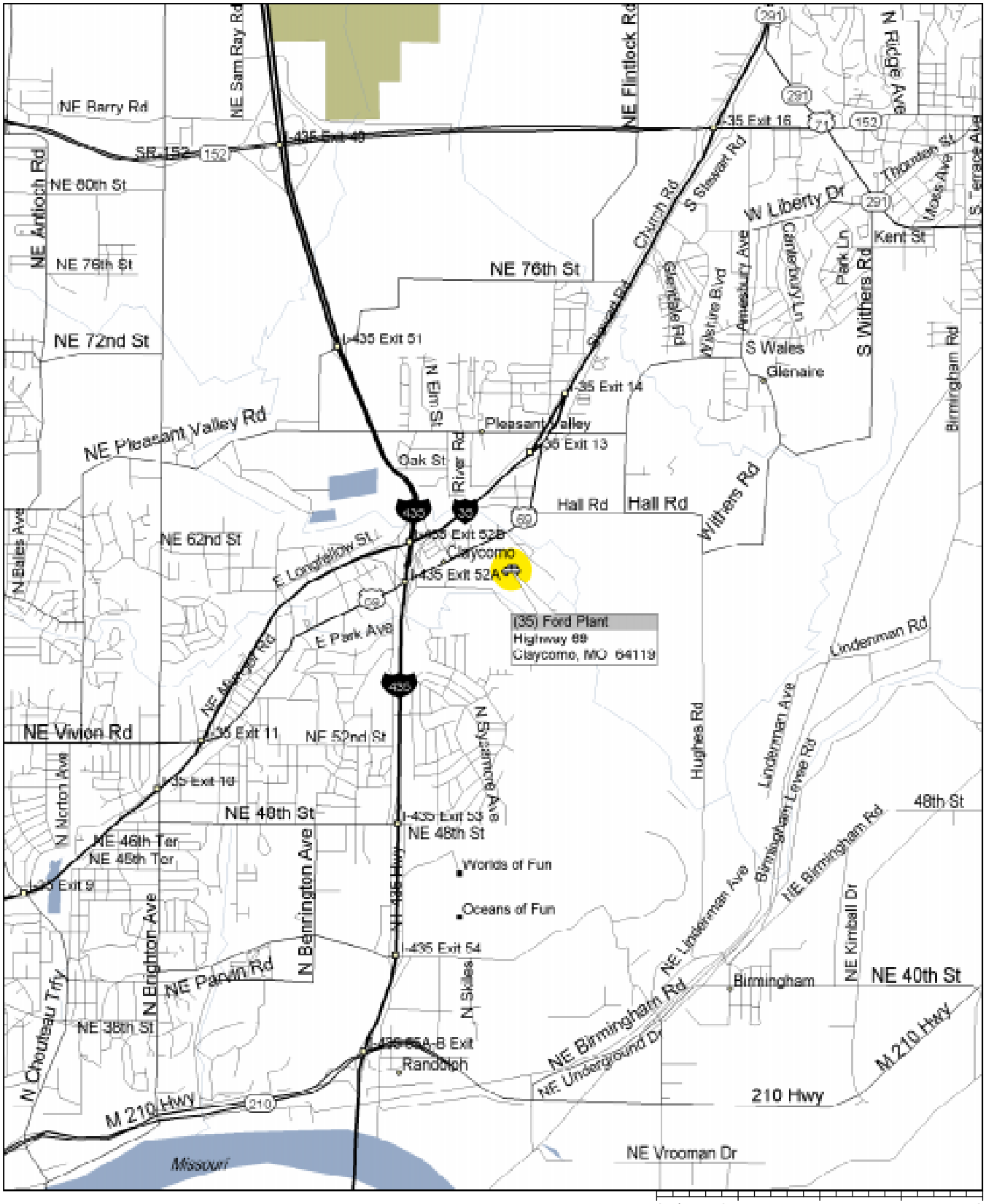
12/2/97

COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

	Census Block	*0-1 Mile*	*0-3 Miles*	*1-3 Miles*	*3-5 Miles*	*County*	*State*	*U.S.*
Total Population (1994)	NA	NA	NA	NA	NA	163,334	5,277,657	260,340,990
Total Population (1990)	488	3,458	25,001	21,543	56,701	153,411	5,117,073	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	6	3	5
Total Area (sq. mi.) (1990)	1.0	3.1	28.2	25.1	50.2	396.5	68,898.1	3,536,278.1
Population/sq. mi. (land area) (1990)	497	1,106	891	864	1,226	387	74	70
Median Household Income (1994)						NA	30,190	32,264
Median Household Income (1989)						34,370	26,362	30,056
% Change 1979-1989 (constant $)						-3	1	7
% Change 1989-1994 (constant $)						NA	15	7
Per Capita Personal Income (1993)						20,345	19,557	20,800
Per Capita Personal Income (1989)						18,041	16,552	17,690
% Change 1989-1993 (current $)						13	18	18
Minority Percentage (1990)	5	3	2	2	3	3	12	20
Pct. of Households Below Poverty Level (1989)	19	7	7	7	10	10	17	20
Pct. Not Completing High School (1990)	20	14	14	14	14	15	25	25
Total Employment (1994) (civilian nonfarm)						93,051	2,695,000	131,056,000
Unemployment Rate (1994)						4	5	6
Manufacturing Employment (1993)						15,262	411,157	18,183,381
Mfgr. as % Total Employment (1993)						24	20	19
Manufacturing Employment (1992)						NA	70,000	18,253,000
Production Workers (1992)						NA	38,000	11,654,000
% Change in Mfgr. Employment 1987-1992						NA	26	-4
Assembly Plant as % Total Mfgr. Workers						30		

Data sources used were not always complete or current.
Attempts have been made to verify data, but errors may still exist.

Claycomo, MO, Ford Plant



Microsoft Expedia Streets98

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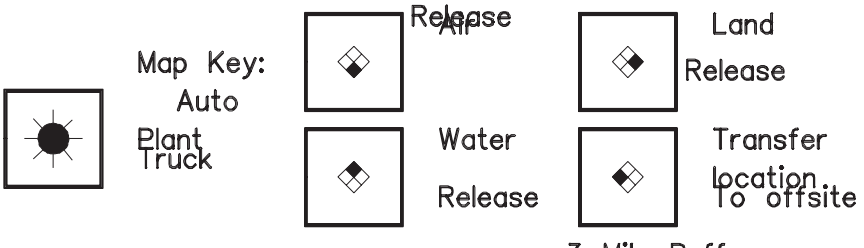
FORD MOTOR CO
HWY 69
CLAYCOMO MO
Tri Number: 64119FRDMTHWY69

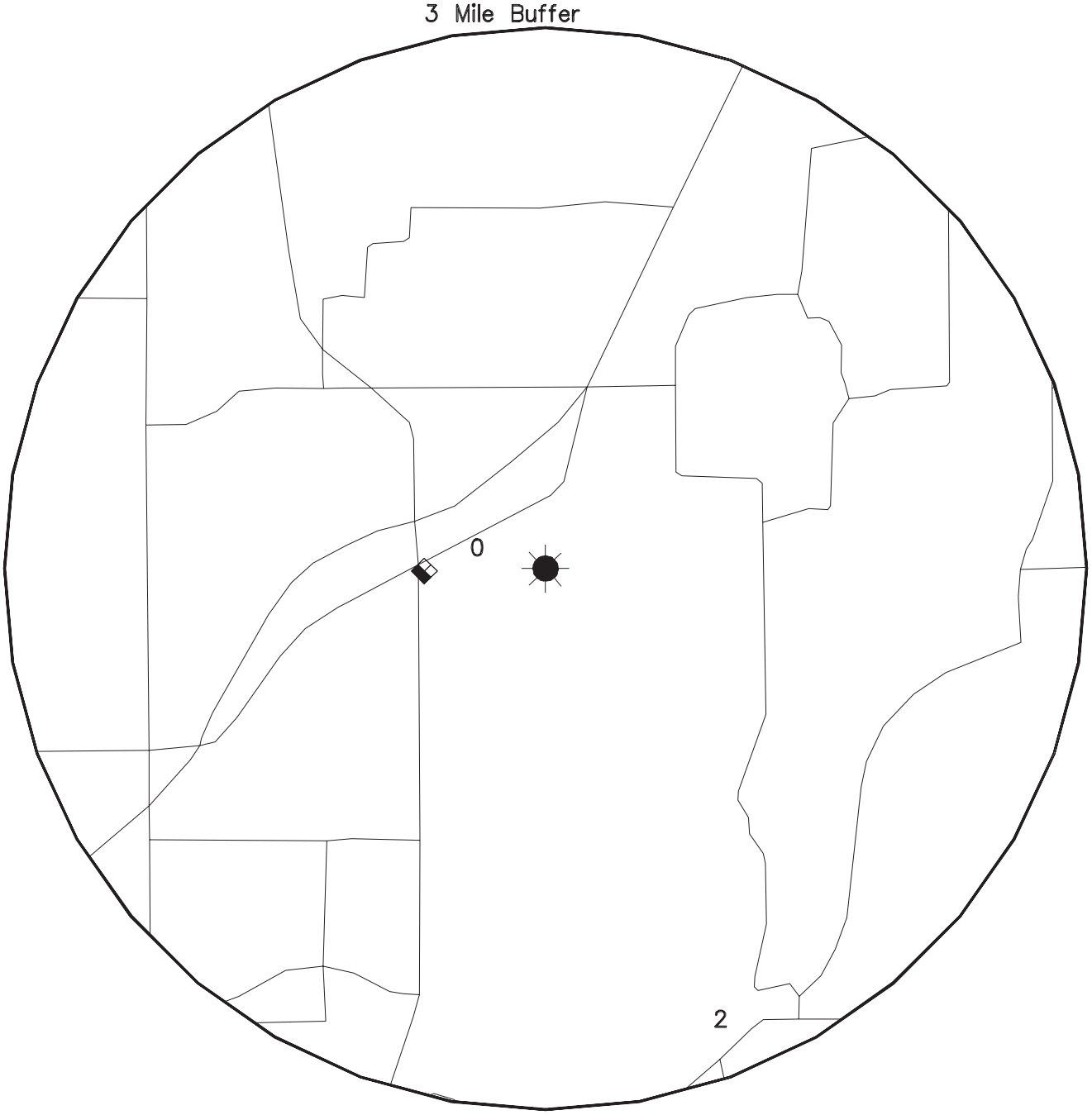
Map #	SIC	Name	Address	City	State
0	3711	FORD MOTOR CO. KANSAS CITY ASSEMBLY PLANT	HWY. 69	CLAYCOMO	MO
2	2653	NEKOOSA PACKAGING KANSAS CITY BOX PLANT	8600 N.E. 38TH ST.	KANSAS CITY	MO

AREA WIDE 1994 TRI EMISSION PROFILE

FORD MOTOR CO
CLAY COUNTY, Missouri

Latitude: 39 12 7
Longitude: 94 28 45





Number without a Symbol denotes no reported emissions over 0.5 pounds per year

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
FORD MOTOR CO TRI N0: 64119FRDMTHWY69

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
FORD MOTOR CO. KANSAS CITY ASSEMBLY PLANT			SIC DESCRIPTION: MOTOR VEHICLES & CAR BODIES SIC CODE: 3711				MAP LOCATION NO:	0
HWY. 69 CLAYCOMO MO 64119 0009								
METHANOL	2,600	65,000	0	0	67,600	5	212	217
N-BUTYL ALCOHOL	200	29,000	0	0	29,200	5	93,502	93,507
BENZENE	520	130	0	0	650	0	0	0
DICHLOROMETHANE	890	5,500	0	0	6,390	2	19,000	19,002
METHYL ETHYL KETONE	13,000	15,000	0	0	28,000	5	39,002	39,007
1,2,4-TRIMETHYLBENZENE	10,000	55,000	0	0	65,000	1	1	2
ETHYLBENZENE	14,000	280,000	0	0	294,000	5	299,880	299,885
ETHYLENE GLYCOL	0	0	0	0	0	7,900	18,000	25,900
METHYL ISOBUTYL KETONE	27,000	250,000	0	0	277,000	5	1,093,003	1,093,008
TOLUENE	77,000	620,000	0	0	697,000	5	79,001	79,006
CYCLOHEXANE	19	6	0	0	25	0	5	5
PROPYLENE	0	5	0	0	5	0	0	0
XYLENE (MIXED ISOMERS)	12,000	560,000	0	0	572,000	5	1,395,910	1,395,915
METHYL TERT-BUTYL ETHER	5,200	1,200	0	0	6,400	0	0	0
HYDROCHLORIC ACID	5	0	0	0	5	0	0	0
NITRIC ACID	1	0	0	0	1	0	0	0
CHROMIUM COMPOUNDS	0	84	0	0	84	420	14,100	14,520
GLYCOL ETHERS	24,000	270,000	0	0	294,000	26,000	38,000	64,000
LEAD COMPOUNDS	0	0	0	0	0	280	2,818	3,098
MANGANESE COMPOUNDS	0	6	0	0	6	530	8,730	9,260
NICKEL COMPOUNDS	0	0	0	0	0	620	8,700	9,320
ZINC COMPOUNDS	250	1	0	0	251	700	21,215	21,915
SUBTOTALS	186,685	2,150,932	0	0	2,337,617	36,488	3,131,079	3,167,567
NEKOOSA PACKAGING KANSAS CITY BOX PLANT			SIC DESCRIPTION: CORRUGATED/SOLID FIBER BOXES SIC CODE: 2653				MAP LOCATION NO:	2
8600 N.E. 38TH ST. KANSAS CITY MO 64161								
SUBTOTALS	0	0	0	0	0	0	0	0

Ford Motor Company
Claycomo (Kansas City) Clay County, Missouri

Latitude: 39 12 7 N
Longitude: 94 28 45 W

MAP KEY:

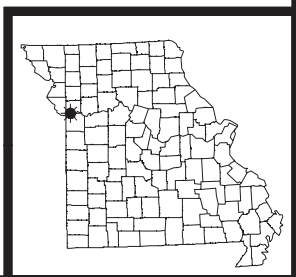
- County Boundries
- Inter State Highway
- US Highway
- Rail Road
- One Mile
- Three Miles
- Five Miles

POPULATION DENSITY / SQ. MILE

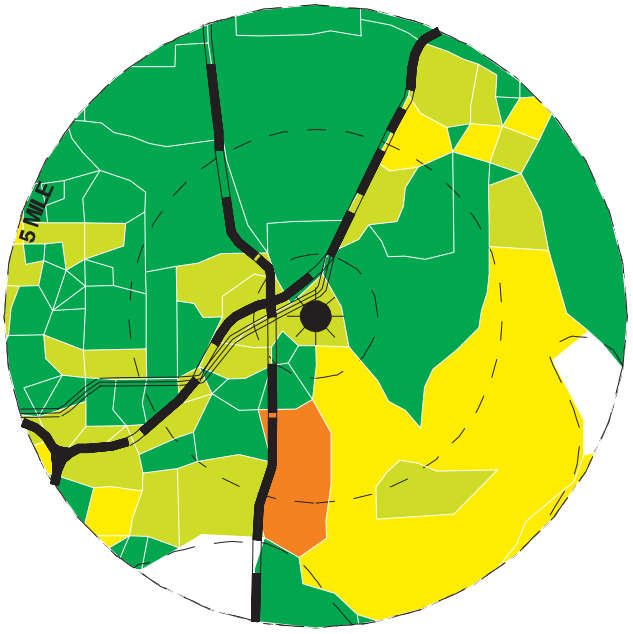
- Greater than 10000
- 1000 - 10000
- 100 - 1000
- 10-100
- 1-10

Minority, poverty, and High School Incomplete percentages

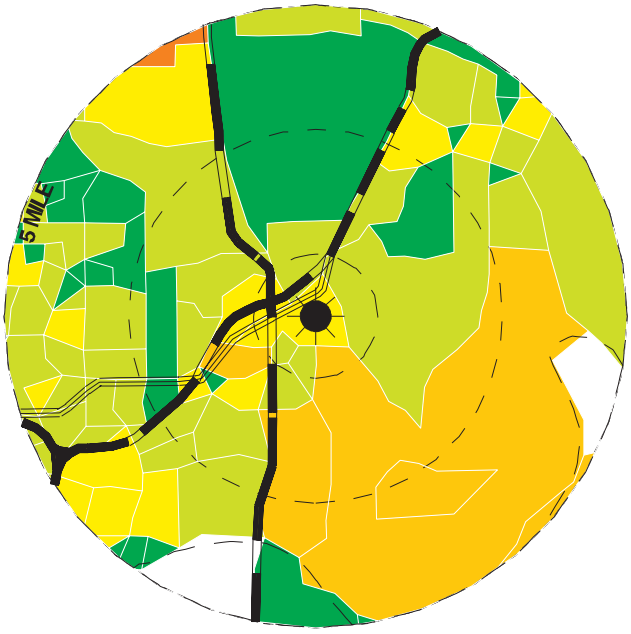
- Greater than 50
- 40 - 50
- 30 - 40
- 20 - 30
- 10 - 20
- 0 - 10



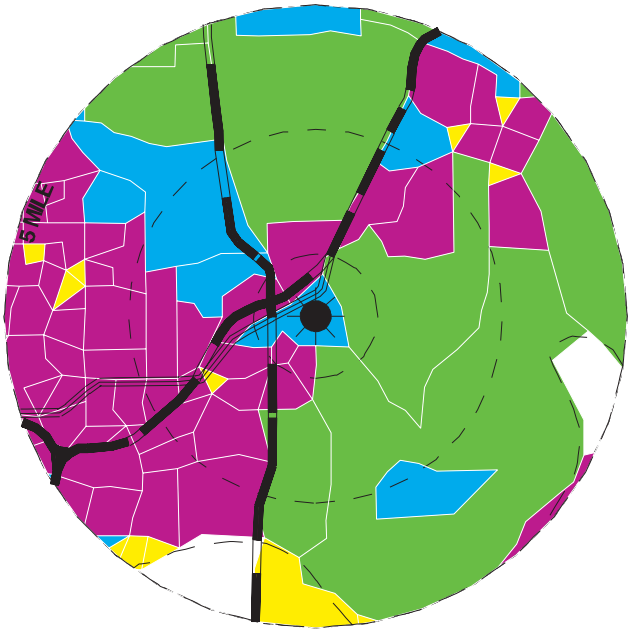
Percentage of Total Population Below Poverty Level



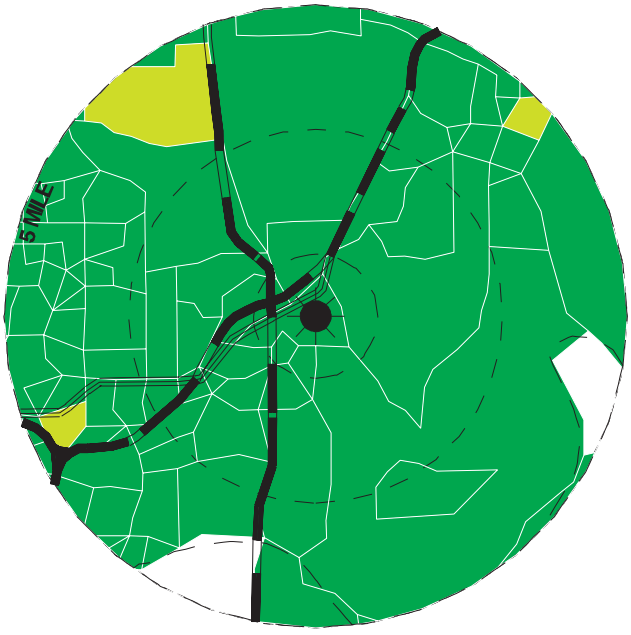
Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population



Ford Motor Company
Claycomo (Kansas City) Clay County, Missouri

Latitude: 39 12 7 N
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MAP KEY:

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POPULATION DENSITY / SQ. MILE

- Greater than 10000
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Minority, poverty, and High School Incomplete percentages

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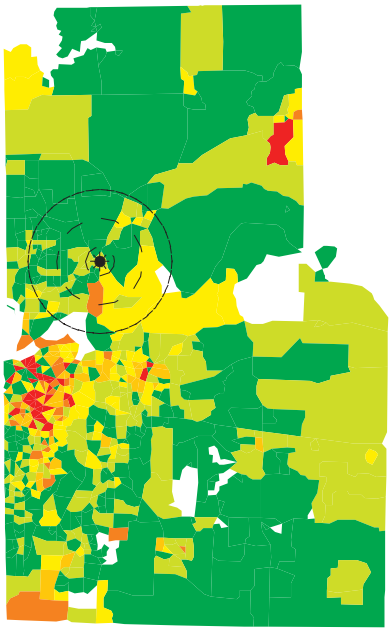
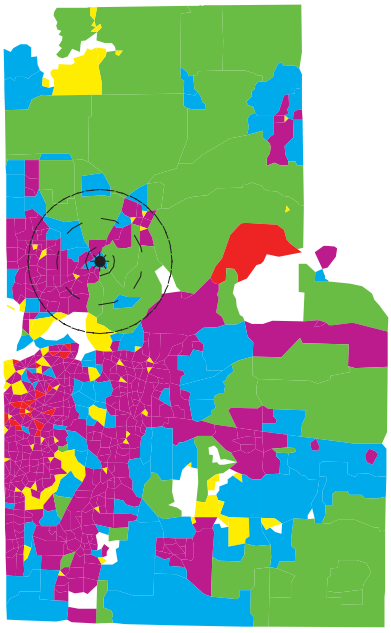
Percentage of Total Population
Below Poverty Level



Percentage of Population not
Completing High School

Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population